

Topics

1. Satellite Networks

1.1. Satellite IoT & DtS-IoT (2)

- 1.1.1. [1] M. Centenaro, C. E. Costa, F. Granelli, C. Sacchi, and L. Vangelista, "A Survey on Technologies, Standards and Open Challenges in Satellite IoT," *IEEE Communications Surveys & Tutorials*, vol. 23, no. 3, pp. 1693–1720, 2021, doi: 10.1109/COMST.2021.3078433.
- 1.1.2. [1] J. A. Fraire, O. Iova, and F. Valois, "Space-Terrestrial Integrated Internet of Things: Challenges and Opportunities," *IEEE Communications Magazine*, vol. 60, no. 12, pp. 64–70, Dec. 2022, doi: 10.1109/MCOM.008.2200215.

1.2. Multi-planetary Networks (2)

- 1.2.1. [1] O. Ozkan, "Optimization and Solution Approaches in Utilizing Wireless Sensor Networks for Exploring Moon, Planets, and Space," in *Modeling and Optimization in Space Engineering: New Concepts and Approaches*, G. Fasano and J. D. Pintér, Eds., in *Springer Optimization and Its Applications*, Cham: Springer International Publishing, 2023, pp. 285–299. doi: 10.1007/978-3-031-24812-2_10.
- 1.2.2. [1] F. Davarian et al., "Improving Small Satellite Communications in Deep Space—A Review of the Existing Systems and Technologies With Recommendations for Improvement. Part I: Direct to Earth Links and SmallSat Telecommunications Equipment," *IEEE Aerospace and Electronic Systems Magazine*, vol. 35, no. 7, pp. 8–25, Jul. 2020, doi: 10.1109/MAES.2020.2980918.

2. Physical layer (2)

- 2.1. [1] F. Yao, Y. Ding, S. Hong, and S.-H. Yang, "A Survey on Evolved LoRa-Based Communication Technologies for Emerging Internet of Things Applications," *International Journal of Network Dynamics and Intelligence*, pp. 4–19, Dec. 2022, doi: 10.53941/ijndi0101002.
- 2.2. [1] G. Sciddurlo et al., "Looking at NB-IoT Over LEO Satellite Systems: Design and Evaluation of a Service-Oriented Solution," *IEEE Internet of Things Journal*, vol. 9, no. 16, pp. 14952–14964, Aug. 2022, doi: 10.1109/JIOT.2021.3135060.

3. MAC layer (4)

- 3.1. [1] A. Laya, C. Kalalas, F. Vazquez-Gallego, L. Alonso, and J. Alonso-Zarate, "Goodbye, ALOHA!" *IEEE Access*, vol. 4, pp. 2029–2044, 2016, doi: 10.1109/ACCESS.2016.2557758.
- 3.2. [1] R. Ortigueira, J. A. Fraire, A. Becerra, T. Ferrer, and S. Céspedes, "RESS-IoT: A Scalable Energy-Efficient MAC Protocol for Direct-to-Satellite IoT," *IEEE Access*, vol. 9, pp. 164440–164453, 2021, doi: 10.1109/ACCESS.2021.3134246.
- 3.3. [1] T. Ferrer, S. Céspedes, and A. Becerra, "Review and Evaluation of MAC Protocols for Satellite IoT Systems Using Nanosatellites," *Sensors*, vol. 19, no. 8, Art. no. 8, Jan. 2019, doi: 10.3390/s19081947.
- 3.4. [1] C. C. Chan, B. Al Homssi, and A. Al-Hourani, "Performance Evaluation of Random Access Methods for IoT-over-Satellite," *Remote Sensing*, vol. 14, no. 17, Art. no. 17, Jan. 2022, doi: 10.3390/rs14174232.